

STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES
& ENVIRONMENTAL CONTROL
DIVISION OF AIR QUALITY
655 S. Bay Road, Suite 5N
DOVER, DELAWARE 19901

Telephone: (302) 739 - 9402 Fax No.: (302) 739 - 3106

September 16, 2014

Permit: <u>APC-81/0829-OPERATION (Amendment 9)(PSD-NSR)</u>
Delaware City Refinery
Optimized NOx Emissions Limits for the Fluid Coking Unit (FCU)

Delaware City Refining Company 4550 Wrangle Hill Road Delaware City, DE 19706

ATTENTION:

Jose Dominguez Refinery Manager

Dear Mr. Dominguez:

Pursuant to 7.**DE.Admin.** Code 1102, Section 2.1.3, approval of the Department of Natural Resources and Environmental Control is hereby granted for the incorporation of optimized short and long term NOx emission limits for the Fluid Coking Unit (FCU) at the Delaware City Refinery in Delaware City, Delaware in accordance with the following documents:

 Application for the FCU submitted on Forms AQM-1, AQM-2, AQM-3.1 and AQM-5 dated July 21, 2014 and signed by Heather Chelpaty.

This permit is issued subject to the following conditions¹:

1. General Provisions

1.6 Pursuant to the requirements of 11.5.2 of 7 DE Admin. Code 1102, the Department shall transfer the specified terms and conditions in these permits to the 7 DE Admin. Code 1130 permit via the administrative permit amendment process specified in 7 DE Admin. Code 1130.

2. Emission Limitations

2.1 Air contaminant emission levels from the FCU WGS shall not exceed specified by 7 **DE Admin. Code** 1100 (the *Regulations*) and the following:

2.1.2 NO_x:

¹ This permit supplements **Permit**: **APC-81/0829-OPERATION (Amendment 8)(PSD-NSR)** dated September 7, 2011 and follows the same numbering sequence.

Delaware City Refining Company Permit: APC-81/0829-OPERATION (Amendment 9)(PSD-NSR) Fluid Coking Unit

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- 2.1.2.1 NO_X emissions shall not exceed 152 ppmvd @ 0 % oxygen on a 30day rolling average basis.
- 2.1.2.2 NO_X emissions shall not exceed 152.0 ppmvd @ 0 % oxygen on a 7day rolling average basis.
- NO_x emissions shall not exceed 115.2 ppmvd @ 0 % oxygen on a 365-2.1.2.3 day rolling average basis.

Administrative Conditions 7.

This permit supplements Permit: APC-81/0829-OPERATION (Amendment 8)(PSD-NSR) dated September 7, 2011 and follows the same numbering sequence. Therefore all other conditions remain unchanged.

Sincerely

Paul E. Foster, P.E. Program Manager

Engineering & Compliance Branch

PEF:CRR:pia

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pc:

Dover Title V File Dawn Minor

Bruce Augustine – US EPA Region 3

Cathleen VanOsten - US EPA



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September 16, 2014

Permit: <u>APC-82/0981-OPERATION (Amendment 10)(NSPS)</u>
Delaware City Refinery
Optimized NOx Emissions Limits for the Fluid Catalytic Cracking Unit (FCCU)

Delaware City Refining Company 4550 Wrangle Hill Road Delaware City, DE 19706

ATTENTION:

Jose Dominguez

Refinery Manager

Dear Mr. Dominguez:

Pursuant to 7 **DE Admin. Code** 1102, Section 2.1.3, approval of the Department of Natural Resources and Environmental Control is hereby granted for the incorporation of optimized short and long term NOx emission limits for the Fluid Catalytic Cracking Unit (FCCU) at the Delaware City Refinery in Delaware City, Delaware in accordance with the following documents:

 Application for the FCCU submitted on Forms AQM-1, AQM-2, AQM-3.1 and AQM-5 dated July 21, 2014 and signed by Heather Chelpaty.

This permit is issued subject to the following conditions¹:

1. General Provisions

1.6 Pursuant to the requirements of 11.5.2 of 7 **DE Admin. Code** 1102, the Department shall transfer the specified terms and conditions in these permits to the 7 **DE Admin. Code** 1130 permit via the administrative permit amendment process specified in 7 **DE Admin. Code** 1130.

2. Emission Limitations

2.1 Air contaminant emission levels from the FCU WGS shall not exceed specified by 7 DE Admin. Code 1100 (the *Regulations*) and the following:

2.1.2 NO_x:

¹ This permit supplements **Permit:** <u>APC-82/0981-OPERATION (Amendment 9)(NSPS)</u> dated April 30, 2012 and follows the same numbering sequence.

Delaware City Refining Company
Permit: <u>APC-82/0981-OPERATION (Amendment 10)(NSPS)</u>
Fluid Catalytic Cracking Unit

September 16, 2014

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- 2.1.2.1 NO_X emissions shall not exceed those prescribed in Condition 3, Table 1e.4.i of **Permit:** <u>AQM-0003/00016-Part 2 (Revision 5)</u> dated April 5, 2011.
- 2.1.2.2 NO_X emissions shall not exceed 137.0 ppmvd @ 0 % oxygen on a 7-day rolling average basis.
- 2.1.2.3 NO_X emissions shall not exceed 100.7 ppmvd @ 0 % oxygen on a 365-day rolling average basis.

8. Administrative Conditions

8.4 This permit supplements **Permit:** <u>APC-82/0981-OPERATION (Amendment 9)(NSPS)</u> dated April 30, 2012 and follows the same numbering sequence. Therefore all other conditions remain unchanged.

Sincerely,

Paul E. Foster, P.E. Program Manager

Engineering & Compliance Branch

PEF:CRR:pjg

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pc: Dover Title V File

Dawn Minor

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